### (19) World Intellectual Property Organization International Bureau



## - 1 (1919) (1911) (1919) (1919) (1919) (1919) (1919) (1919) (1919) (1919) (1919) (1919) (1919) (1919) (1919) (1919)

(43) International Publication Date 2 December 2004 (02.12.2004)

PCT

# (10) International Publication Number WO 2004/103282 A3

(51) International Patent Classification<sup>7</sup>:

\_\_\_\_

(21) International Application Number:

PCT/US2004/014958

C07D 235/02

(22) International Filing Date:

13 May 2004 (13.05.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/471,294

15 May 2003 (15.05.2003) US

(71) Applicant (for all designated States except US): CY-TOKINETICS, INC. [US/US]; 280 East Grand Avenue, South San Francisco, California 94080 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): QIAN, Xiangping [CA/US]; 114 Mira Street, Foster City, California 94404 (US). BERGNES, Gustave [US/US]; 74 Kathleen Court, Pacifica, California 94044 (US). MORGANS, JR., David [US/US]; 781 Vista Grande Avenue, Los Altos, California 94024 (US).

(74) Agents: GARRETT, ARTHUR, S. et al.; Finnegan, Henderson, Farabow, Garrett, & Dunner, L.L.P., 1300 I Street, NW, Washington, District of Columbia 20005-3315 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

with international search report

(88) Date of publication of the international search report: 24 March 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOUNDS, COMPOSITIONS AND METHODS

## **INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US04/14958

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : C07D 235/02  US CL : 548/300.7				
US CL: 548/300.7 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 548/300.7				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched.				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet				
C. DOCUMENTS CONSIDERED TO BE RELEVANT	empropriate of the relevant passages Relevant to claim No.			
Category * Citation of document, with indication, where a	ppiopilate, or all terms of the second			
A Database CAS ONLINE on STN, Chem. Abstr., A SCHOELLKOPF et al., Liebigs Annalen der Cher	Accession No. 1981:443614, 24 nie (1981), (3), 439-58, abstract.			
Further documents are listed in the continuation of Box C.	See patent family annex.			
Special categories of cited documents:  "A" document defining the general state of the art which is not considered to	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
be of particular relevance  "E" earlier application or patent published on or after the international filing date	"X"  document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"  document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art			
"O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the	"&" document member of the same patent family			
Date of the actual completion of the international search	Date of mailing of the international search report			
26 October 2004 (26.10.2004)	0 6 JAN 2005			
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US	Authorized officer  Rebecca L Anderson Ty (1 a ) Ti (1 a)			
Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230	Rebecca L Anderson) Telephone No. (703) 308-1235			

Form PCT/ISA/210 (second sheet) (January 2004)

## INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/149#8

	No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of tirst
sheet This i	internation	onal search report has not been established in respect of certain claims under Article 17(2)(a) for the following
reaso		
1.		Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	$\boxtimes$	Claims Nos.: 1-23 and 25-35 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:  Please See Continuation Sheet
3.	6.4(a).	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule
Box	No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This	Intern	tional Searching Authority found multiple inventions in this international application, as follows:
1118		
1.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	Ц	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.		As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	L	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Ren	nark on	
		No protest accompanied the payment of additional search fees.

	International application No.
INTERNATIONAL SEARCH REPORT	PCT/US04/14958
•	
	•
Continuation of Box II Reason 2:	O Dil etc and their voluminous complex meanings
The numerous variables, e.g. R4, R4', R1, T, T', R2, R2', R3, R7, R6, R6a, R and their virtual incomprehensible permutations and combinations make it impos	sible to determine the full scope and complete
I	Callifor of regarded as being a crear and concise
I described to the material in cought and as such the usied claims (IO NOL CO	Million with the reddifficting of LCT various of Lines
it is impossible to carry out a meaningful search on same. A search will be carry	ied out on the first discernable invention which is the
first mentioned compound of claim 24.	
ļ.	
· ·	
AD THE DO STANGUED IA	
Continuation of B. FIELDS SEARCHED Item 3:	
STN structure search	
	•
	•